



Receipt #

ATTENTION: APPLICATION BRANCH

In re the Application of: Geoffrey D. Nunberg, et al.

Application No.: 09/100,189

Filed: 06/18/98

Group Art Unit: 2772

Attorney Docket No.: D/95465

Title: ARTICLE AND METHOD OF AUTOMATICALLY DETERMINING TEXT GENRE USING

SURFACE FEATURES OF UNTAGGED TEXTS

REQUEST FOR CORRECTED OFFICIAL FILING RECEIPT

Assistant Commissioner for Patents Washington, DC 20231

Dear Sir or Madam:

A corrected filing receipt is hereby requested in view of the error which appears on the original. For the convenience of the Patent and Trademark Office, attached is a photo-copy of the first page of the application, a copy of the declaration and power of attorney and a copy of the original receipt on which the error, the word **TEXT** should appear between **DETERMINING** and **GENRE** in the title, has been noted in red. The title should read:

ARTICLE AND METHOD OF AUTOMATICALLY DETERMINING TEXT GENRE USING SURFACE FEATURES OF UNTAGGED TEXTS

A second error, missing inventors names and addresses: Geoffrey D. Nunberg, San Francisco, CA; Hinrich Schuetze, San Francisco, CA; Jan O. Pedersen, Fremont, CA; Brett L. Kessler, Menlo Park, CA; Gregory Grefenstette, Saint Martin d'Heres, France, have also been noted in red.

As the error was made by the Patent and Trademark Office, it is believed that no fee is due. However, please credit or debit Deposit Account 24-0025 as necessary to effect entry of the attached corrections.

Very truly yours,

Susan K. Vanderschmidt

Domestic Docket Coordinator

Telephone No. 716-423-3725

Date of Signature: September 29, 1998

Xerox Corporation Office of General Counsel Xerox Square - 20A Rochester, New York 14644 98 NOV - 4 AM 9: 2

ID:

PAGE 3/3

PTO-103X P E FILING RECEPT



UNITED STATES D... ARTMENT OF COMMERCE Patent and Trademark Office ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

| APPLICATION NUMBER | FILING DATE | GRP ART UNIT | FIL FEE REC'D | ATTORNEY DOCKET NO. | DRWGS | TOT CL | IND CL | 109/100,189 | 06/18/98 | 2772 | \$1,026.00 D/95465 | 6 27 4

RONALD ZIBELLI XEROX CORPORATION XEROX SQUARE 20A ROCHESTER NY 14644

DOCKETED DWA

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Application Processing Division's Customer Correction Branch within 10 days of receipt. Please provide a copy of the Filing Receipt with the changes noted thereon.

Applicant(s)

GEOFFREY D. NUNBERG, JA. San Francisco, CA? Hinrich Schoetze, San Francisco, CA

√CONTINUING DATA AS CLAIMED BY APPLICANT-PROVISIONAL APPLICATION NO. 60/051,558 07/02/97

FOREIGN FILING LICENSE GRANTED 07/09/98

TITLE

ARTICLE AND METHOD OF AUTOMATICALLY DETERMINING GENRE USING SURFACE FEATURES OF UNTAGGED TEXTS

PRELIMINARY CLASS: 707

Jan O. Pedersen, Fremont, CA; Breth L. Kessler, Menlo Park, CA; Gregory Grefenstette, Saint Martin d'Heres, France

RECEIVED 98 NOV -4 AM 9: 28

RECEIVED

SEP - 2 RECT

RECEIVED

PALO ALTO PATE: 1 C. 25

— **JUL 2** 0-1998

PATENT DEPARTMENT

OCT 0 2 1998

ID:

Express Mail []65635465US Mailing Date: June 18, 1998

Patent Application Attorney Docket No.: D95465

ARTICLE AND METHOD OF AUTOMATICALLY DETERMINING TEXT GENRE USING SURFACE FEATURES OF UNTAGGED TEXTS

Fleid of the Invention

The present invention relates to computational linguistics. In particular, the present invention relates to a method of automatically determining the text genre of machine-readable texts based upon surface level cues observed within the untagged texts.

Background of the invention

The word "genre" usually functions as a literary substitute for "kind of text." Text genre differs from the related concepts of text topic and document genre. Text genre and text topic are not wholly independent. Distinct text genres like newspaper stories, novels and scientific articles tend to largely deal with different ranges of topics; however, topical commonalties within each of these text genres are very broad and abstract. Additionally, any extensive collection of texts relating to a single topic almost always includes works of more than one text genre so that the formal similarities between them are limited to the presence of texical items. While text genre as a concept is independent of document genre, the two genre types grow up in close historical association with dense functional interdependencies. For example, a single text genre may be associated with several document genres. A short story may appear in a magazine or anthology or a novel can be published serially in parts, reissued as

PATENT APPLICATION

Attorney Docket No. D/95465

RATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

s a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: ARTICLE AND METHOD OF AUTOMATICALLY DETERMINING TEXT GENRE USING SURFACE FEATURES OF UNTAGGED TEXTS

the specification and claims of the large attached hereto	OR 🛛 was filed on 🛭	June 18, 1998 as U.S. Application No. was amended on (if applicable)		
I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.				
I acknowledge the duty to disc Code of Federal Regulations, §	lose information which is 1.56.	s material to the patentability as defined in Title 37		
application(s) for patent listed b	elow, and have also iden	States Code, §119 of any foreign or U.S. Provisiona ntified below any foreign application(s) or Provisiona of the application on which priority is claimed:		
Prior Foreign or U.S. Provisional Application(s)				
60/051,558 (Number)	<u>United States</u> (Country)	2/July/1997 (Day/Month/Year Filed)		

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Ronald Zibelli,

Reg. No. 20,484;

Henry Fleischer,

Reg. No. 25,582;

John E. Beck,

Reg. No. 22,833;

Mark Costello.

Reg. No. 31,342;

Serge Abend,

Reg. No. 24,152;

Richard B. Domingo,

Reg. No. 36,784

ADDRESS ALL CORRESPONDENCE TO:

Ronald Zibelli

DIRECT TELEPHONE CALLS TO:

Xerox Corporation

(name and telephone number)

Richard B. Domingo

Xerox Square 20A

650-812-4269

Rochester, New York 14644

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

3/9

Attorney Docket No. D/95465

Name of sole	or first inventor:	Geoffrey D. Nunberg	ch 100
Inventor's Sig	gnature:	- My Ken	Date:
		Avenue, San Francisco, CA 94114	
Citizenship:	U.S.A.	U	Post Office Address: (Same as above)
Name of sec	and joint Inventor:	Hinrich Schuetze	
Marine Or Sect	ond joint inventor.	Allitecti Schilderze	0/12/0
Inventor's Sig		Apt. 1, San Francisco, CA 94131-1552	Date: 7/17/91
Citizenship:	Germany	, Apr. 1, Sait Hailcisco, GA 54131-1552	Post Office Address:
			(Same as above)
Name of third	joint inventor:	Jan O. Pedersen	
	•		
Inventor's Sig			Date:
Residence: Citizenship:		errace, Fremont, CA 94555	Dank Office Address.
Onizensinp.	O.G.A.		Post Office Address: (Same as above)
Name of four	th joint inventor:	Brett L. Kessler	
		Di Cit E. 11000101	
Inventor's Sig			Date:
		Avenue, Apt. N. Menlo Park, CA 94025-	3138
Citizenship:	U.S.A.		Post Office Address:
			(Same as above)
Name of fifth	joint inventor:	Gregory Grefenstette	
Inventor's Sig	ınature:		Date:
Residence:	21 Avenue de la 0	Salochere, 38400 Saint Martin d'Heres, F	rance
Citizenship:			Post Office Address:
			(Same as above)

PATENT APPLICATION

Attorney Docket No. D/95465

ARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

ADDRESS ALL CORRESPONDENCE TO:

Ronald Zibelli

Xerox Corporation

Xerox Square 20A

Rochester, New York 14644

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: ARTICLE AND METHOD OF AUTOMATICALLY DETERMINING TEXT GENRE USING SURFACE FEATURES OF UNTAGGED TEXTS

	I JOHN E. BECK.	HAS NO 22 X33:	MISTY (INSTALLA	
	POWER OF ATTORN practitioners to prosect Office connected therev Ronald Zibelli, John E. Beck,	ute this application and	ventor, I hereby appoint transact all business in the Henry Fleischer, Mark Costello,	the following registered Patent and Trademark Reg. No. 25,582; Reg. No. 31,842;
_	60/051.558 (Number)	<u>United States</u> (Country)	2/July/1997 (Day/Month/Yo	ear Filed)
F	Prior Foreign or U.S. Provi	isional Application(s)		
а	application(s) for patent lis	sted below, and have also	ted States Code, §119 of a o identified below any foreig that of the application on wh	ny foreign or U.S. Provisiona n application(s) or Provisiona nich priority is claimed:
1	I acknowledge the duty to Code of Federal Regulation	disclose information whos, §1.56.	nich is material to the pater	ntability as defined in Title 37
i	I hereby state that I hav including the claims, as an	re reviewed and unders nended by any amendme	stand the contents of the ant referred to above.	above-identified specification
t	the specification and claim are attached hereto	OR 🖾 was filed	d on <u>June 18, 1998</u> as U.S. <i>i</i> and was amended on (if ap	
•	GENRE USING SURFACE	E FEATURES OF UNTA	GGED TEXTS	CALLY DETERMINING TEX

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

DIRECT TELEPHONE CALLS TO:

(name and telephone number)

Richard B. Domingo

650-812-4269

ID:

5/9 PAGE

Attorney Docket No. D/95465

Name of sole	or first inventor:	Geoffrey D. Nunberg	
Inventor's Sig Residence: Citizenship:	678 Grand View A	venue, San Francisco, CA 94114	Date: Post Office Address:
Inventor's Sig	100 Portola Drive,	Hinrich Schuetze Apt. 1, San Francisco, CA 94131-1552	(Same as above) Date: Post Office Address: (Same as above)
Inventor's Sig	34398 Wellman Te	Jan O. Pedersen errace, Fremont, CA 94555	Date: Post Office Address: (Same as above)
	h joint inventor:	Brett L. Kessler	
Inventor's Sig Residence: Citizenship:	1508 San Antonio	Avenue, Apt. N, Menlo Park, CA 94025-3	Date: 3138 Post Office Address: (Same as above)
Name of fifth j	joint Inventor:	Gregory Grefenstette	
Inventor's Sig Residence: Citizenship:	21 Avenue de la G	alochere, 38400 Saint Martin d'Heres, Fr	Date: A 10 78 rance Post Office Address:



ID:

PATENT APPLICATION

Attorney Docket No. D/95465

ARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: ARTICLE AND METHOD OF AUTOMATICALLY DETERMINING TEXT GENRE USING SURFACE FEATURES OF UNTAGGED TEXTS

the specification and claims of whi	OR 🛛 was filed on <u>June 18</u>	8. 1998 as U.S. Application No. nended on (if applicable)			
I hereby state that I have revie including the claims, as amended	I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.				
l acknowledge the duty to disclos Code of Federal Regulations, §1.5	e information which is materi 6.	ial to the patentability as defined in Title 37			
application(s) for patent listed beig	w, and have also identified b	code, §119 of any foreign or U.S. Provisiona below any foreign application(s) or Provisiona pplication on which priority is claimed:			
Prior Foreign or U.S. Provisional Application(s)					
	nited States ountry)	2/July/1997 (Day/Month/Year Filed)			

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Ronald Zibelli, Reg. No. 20,484; Henry Fleischer, Reg. No. 25,582; John E. Beck, Reg. No. 22,833; Mark Costello, Reg. No. 31,342; Serge Abend, Reg. No. 24,152; Richard B. Domingo, Reg. No. 36,784

ADDRESS ALL CORRESPONDENCE TO:

Ronald Zibelli

Xerox Corporation

DIRECT TELEPHONE CALLS TO:

(name and telephone number)

Richard B. Domingo

Xerox Corporation Richard B. Domingo Xerox Square 20A 650-812-4269

Xerox Square 20A 650-812-4269
Rochester, New York 14644

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jecpardize the

validity of the application or any patent issuing thereon.

Attorney Docket No. D/95465

Name of sole	or first inventor:	Geoffrey D. Nunberg	
Inventor's Sig	nature:		Date:
Residence: Citizenship:	678 Grand View A U.S.A.	venue, San Francisco, CA 94114	Post Office Address: (Same as above)
Name of seco	and joint inventor:	Hinrich Schuetze	
Inventor's Sig Residence: Citizenship:	100 Portola Drive	Apt. 1, San Francisco, CA 94131-1552	Post Office Address: (Same as above)
Inventor's Sig Residence:	nature: 34398 Wellman T	Jan O. Pedersen Jan O. Sellon errolo, Fremont, CA 94555 Bibbits Or., Palo Nin, (A 94303	Date: <u>2/26/78</u> Post Office Address:
	th joint inventor:		(Same as above)
	•	Diett E. Nessiel	
Inventor's Sig Residence: Citizenship:	1508 San Antonio	Avenue, Apt. N, Menlo Park, CA 94025-3	Date: 3138 Post Office Address: (Same as above)
Name of fifth	joint inventor:	Gregory Grefenstette	
Inventor's Sig Residence: Citizenship:	21 Avenue de la 6	Galochere, 38400 Saint Martin d'Heres, Fr	Date: ance Post Office Address: (Same as above)

8/9

PATENT APPLICATION

Attorney Docket No. D/95465

ARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: ARTICLE AND METHOD OF AUTOMATICALLY DETERMINING TEXT GENRE USING SURFACE FEATURES OF UNTAGGED TEXTS

the specification and claims of w	hich	
are attached hereto	OR	was filed on June 18, 1998 as U.S. Application No.
		09/100.189 and was amended on (if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim priority benefits under Title 35, United States Code, §119 of any foreign or U.S. Provisional application(s) for patent listed below, and have also identified below any foreign application(s) or Provisional application(s) for patent having a filing date before that of the application on which priority is claimed:

Prior Foreign or U.S. Provisional Application(s)

60/051.558	United States	2/Julv/1997
(Number)	(Country)	(Day/Month/Year Filed)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Ronald Zibelli, Reg. No. 20,484; Henry Fleischer, Reg. No. 25,582; John E. Beck, Reg. No. 22,833; Mark Costello, Reg. No. 31,342;

Serge Abend, Reg. No. 24,152; Richard B. Domingo, Reg. No. 36,784

ADDRESS ALL CORRESPONDENCE TO: DIRECT TELEPHONE CALLS TO:

Ronald Zibelli (name and telephone number)

Xerox Corporation Richard B. Domingo

Xerox Square 20A 650-812-4269

Rochester, New York 14644

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

9/9

Attorney Docket No. D/95465

Name of sole	or first inventor:	Geoffrey D. Nunberg	
Inventor's Sig Residence: Citizenship:	678 Grand View A	venue, San Francisco, CA 94114	Post Office Address: (Same as above)
Name of seco	and joint inventor:	Hinrlch Schuetze	
Inventor's Sig Residence: Citizenship:	100 Portola Drive,	Apt. 1, San Francisco, CA 94131-1552	Post Office Address: (Same as above)
Name of third	i joint inventor:	Jan O. Pedersen	
Inventor's Sig Residence: Citizenship:	34398 Wellman Te	errace, Fremont, CA 94555	Post Office Address: (Same as above)
	th joint inventor:	1 • '	Date: July 24.1995
Residence: Citizenship:	1508 San Antonio	Avenue, Apt. N, Menlo Park, CA 94025-	3138 Post Office Address: (Same as above)
Name of fifth	joint inventor:	Gregory Grefenstette	
Inventor's Sig Residence: Citizenship:	21 Avenue de la G	Salochere, 38400 Saint Martin d'Heres, F	Date: rance Post Office Address: (Same as above)